

***PLASMA POLYMERIZATION METHODS FOR THE DEPOSITION OF CHEMICAL  
GRADIENTS AND SURFACES DISPLAYING GRADIENT OF IMMOBILIZED  
BIOMOLECULE***

***ABSTRACT***

The invention relates to a method to prepare at least part of at least one surface of a substrate comprising depositing on the surface at least one plasma monomer from a monomer source wherein during deposition of said monomer said monomer and/or said surface are moved relative to one another to provide a non-uniform plasma polymerized surface, and introducing to at least part of said plasma polymerized surface a binding entity to provide a non-uniform surface formed from said binding entity.